

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P230567

Luminaire Tested: **22CZ-LD5-32SE-UNV-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P230567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-32SE-UNV-L950-CD1-U
Description: CRUZE 2x2 LED TROFFER
WITH RIBBED LENS
Light Source: (56) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3075.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

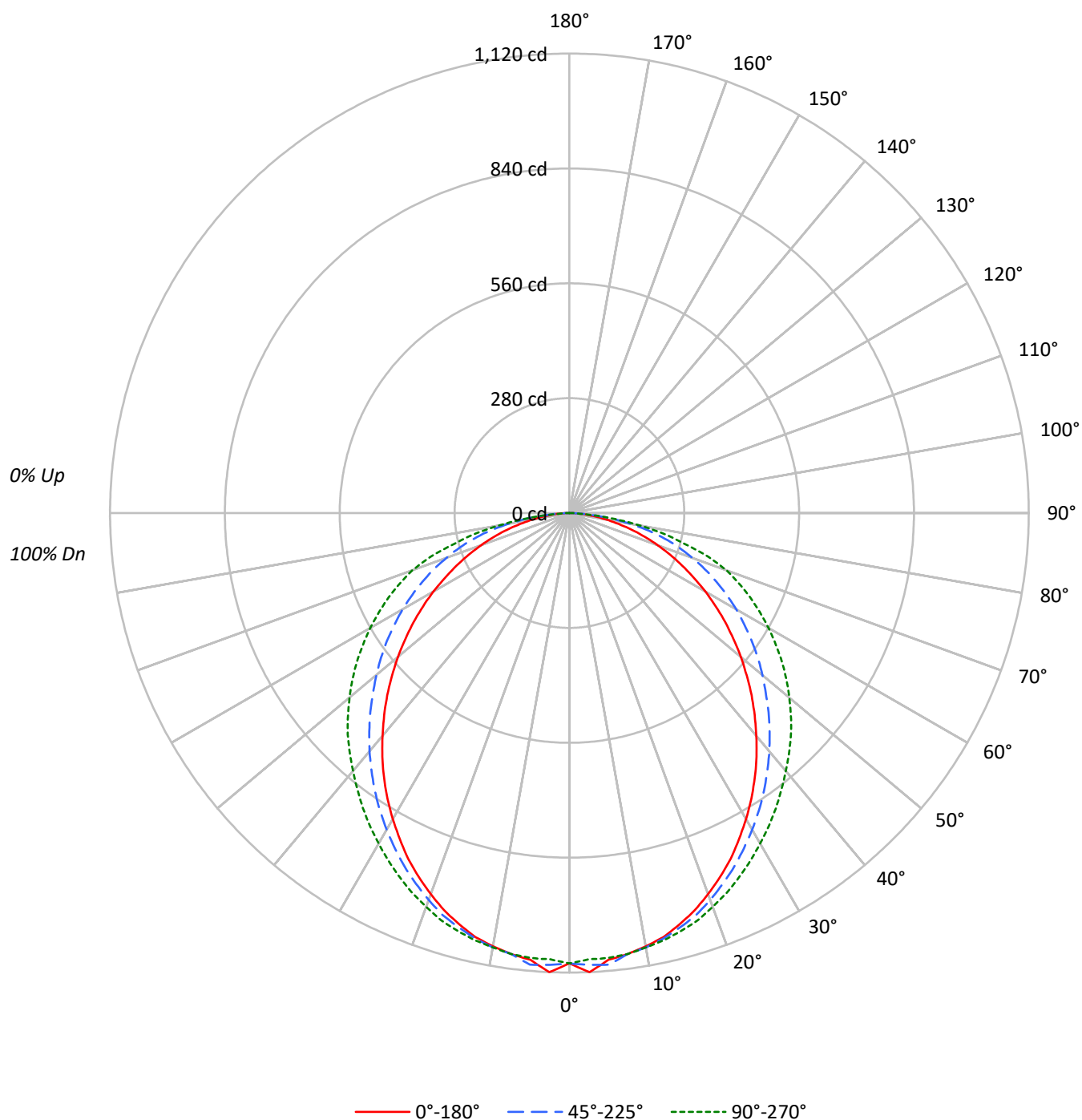
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	104	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	70	64	87	77	69	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	38	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	29		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2954	2954	2954
5°	2953	2985	2941
10°	2930	2938	2938
15°	2891	2912	2937
20°	2830	2873	2925
25°	2762	2824	2908
30°	2676	2769	2890
35°	2589	2716	2884
40°	2490	2663	2884
45°	2390	2612	2908
50°	2285	2573	2930
55°	2175	2547	2967
60°	2060	2527	3018
65°	1933	2514	3095
70°	1800	2506	3200
75°	1632	2503	3032
80°	1413	2317	2689
85°	1201	1754	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.4
10°-20°	294.9	9.6
20°-30°	438.6	14.3
30°-40°	518.8	16.9
40°-50°	533.2	17.3
50°-60°	487.2	15.8
60°-70°	389.8	12.7
70°-80°	244.6	8.0
80°-90°	63.7	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	837.6	27.2
0°-40°	1356.4	44.1
0°-60°	2376.9	77.3
0°-90°	3075.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3075.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1093	1093	1105	1098	1089	104
15°	1038	1039	1045	1051	1054	292
25°	930	936	951	968	979	428
35°	788	798	827	858	878	492
45°	628	644	686	737	764	484
55°	464	486	543	603	632	415
65°	304	330	395	455	486	301
75°	157	187	241	277	292	167
85°	39	49	57	55	55	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.6	1097.6	1097.6	1097.6	1097.6
2.5°	1120.0	1115.5	1102.1	1093.1	1088.6
5°	1093.1	1093.1	1105.0	1097.6	1088.6
7.5°	1084.1	1084.1	1084.1	1106.5	1084.1
10°	1072.2	1073.6	1075.1	1084.1	1075.1
12.5°	1058.7	1058.7	1061.7	1064.7	1066.2
15°	1037.8	1039.3	1045.2	1051.2	1054.2
17.5°	1015.3	1019.8	1027.3	1034.8	1040.7
20°	988.4	994.4	1003.4	1015.3	1021.3
22.5°	960.0	966.0	977.9	991.4	1001.9
25°	930.1	936.1	951.0	967.5	979.4
27.5°	895.7	903.2	921.1	943.6	955.5
30°	861.3	870.3	891.2	916.6	930.1
32.5°	825.4	835.9	859.8	888.2	904.7
35°	788.0	798.5	826.9	858.3	877.8
37.5°	749.2	761.1	792.5	828.4	849.3
40°	708.8	722.2	758.1	797.0	820.9
42.5°	668.4	683.4	722.2	768.6	792.5
45°	628.0	644.5	686.4	737.2	764.1
47.5°	586.2	605.6	649.0	705.8	732.7
50°	545.8	565.2	614.6	672.9	699.8
52.5°	503.9	526.4	578.7	638.5	666.9
55°	463.6	486.0	542.8	602.6	632.5
57.5°	423.2	445.6	505.4	566.7	596.6
60°	382.8	406.7	469.5	529.3	560.7
62.5°	342.4	367.9	432.1	493.5	523.4
65°	303.6	330.5	394.8	454.6	486.0
67.5°	266.2	294.6	357.4	415.7	447.1
70°	228.8	257.2	318.5	375.3	406.7
72.5°	192.9	221.3	281.1	332.0	355.9
75°	157.0	186.9	240.7	276.6	291.6
77.5°	122.6	152.5	198.9	222.8	239.3
80°	91.2	116.6	149.5	167.5	173.5
82.5°	62.8	83.7	104.7	109.2	112.1
85°	38.9	49.3	56.8	55.3	55.3
87.5°	17.9	19.4	16.4	12.0	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)